WHAT IS CLAIMED IS:

- 1. A motor-driven pump unit comprising:
- 5 an electric motor having a stator and a rotor;
 - a pump being concentrically enclosed by said rotor, said rotor having a U-shape when viewed in an axial sectional view, wherein said U-shape has a web that is provided in the region of a common axis, said web having an internal gearing, and wherein said pump has a shaft that has a pinion that mates with said internal gearing of said web; and
- a housing having a face wall on a web side and an opposite face on a connection side that carries connections for a medium to be conveyed, wherein said housing is arranged in a region of said face wall on said web side as a container for receiving said medium, for receiving a cooling device or for receiving a filtering device.

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- 2. The motor-driven pump unit of claim 1, wherein said housing is arranged as a valve block in a region of said opposite face on said connection side, said valve block has a flow control device selected from the group consisting essentially of a directional control valve, a safety valve, a pressure reducing valve, a quantity divider, a flow control valve, a stop valve, a proportional valve, and any combinations thereof.
- 30 3. The motor-driven pump unit of claim 1, wherein

said rotor encloses said pump and is operably connected to said housing.

- 4. The motor-driven pump unit of claim 1, wherein said pump is a hydraulic pump.
 - 5. The motor-driven pump unit of claim 1, wherein said medium from said pump has a throughput with at least a portion thereof that is used for cooling said motor.
- 6. The motor-driven pump unit of claim 1, wherein said web of said U-shape and said face wall of said housing on said web side has therebetween a tank, wherein said shaft of said pump projects into said tank and carries an impeller, and wherein said impeller can convey cooling medium out of said motor into said pump.
 - 7. A motor-driven pump unit comprising:
- an electric motor having a stator and a rotor;

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- a pump being concentrically enclosed by said rotor, said rotor having a U-shape when viewed in an axial sectional view, wherein said U-shape has a web that is provided in the region of a common axis, said web having an internal gearing, wherein said pump has a shaft that has a pinion that mates with said internal gearing of said web; and
- a housing having a face wall on a web side and an opposite face on a connection side that carries connections for a medium to be conveyed, wherein said housing is arranged as a valve block in a region of said opposite face

on said connection side, and wherein said valve block has a flow control device selected from the group consisting essentially of a directional control valve, a safety valve, a pressure reducing valve, a quantity divider, a flow control valve, a stop valve, a proportional valve, and any combinations thereof.

- 8. The motor-driven pump unit of claim 7, wherein said rotor encloses said pump and is operably connected to 10 said housing.
 - 9. The motor-driven pump unit of claim 7, wherein said pump is a hydraulic pump.
- 10. The motor-driven pump unit as claimed in claim 7, wherein said medium from said pump has a throughput with at least a portion thereof that is used for cooling said motor.
- 11. The motor-driven pump unit of claim 7, wherein
 20 said web of said U-shape and said face wall of said housing
 . on said web side has therebetween a tank, wherein said shaft
 of said pump projects into said tank and carries an
 impeller, and wherein said impeller can convey cooling
 medium out of said motor into said pump.

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